

Docket No.: 03702/0205110-US0
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kenji Kojima et al.

Application No.: 10/599,383

Confirmation No.: 7833

Filed: September 27, 2006

Art Unit: N/A

For: ORGANIC ELECTROLYTE CAPACITOR
USING A MESOPORE CARBON MATERIAL
AS A NEGATIVE ELECTRODE

Examiner: Not Yet Assigned

PETITION UNDER 37 CFR 1.497(d)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants electronically filed the Combined Declaration and Power of Attorney and a corrected Application Data Sheet on January 24, 2007 for the subject National Stage Application under U.S.C. §371, based on PCT Application No. PCT/JP2005/006822, filed March 31, 2005. Copies of the Declaration, the corrected Application Data Sheet and the Electronic Acknowledgement Receipt are included herewith.

Applicants have now received a Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US), mailed May 14, 2007, indicating that the current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68, and that the spelling of the 2nd inventor's last name on the declaration is different to the spelling on the published application (Satoshi NAGURA on the declaration versus Satoshi NAKURA on the PCT publication). A Copy of the front page of WO 2005/096333 published on October 13, 2005 is also included herewith.

Applicants herewith submit a Statement Concerning a Correction of Name of the Second Inventor, Satoshi NAGURA, confirming that the incorrect spelling of his last name was unintentionally entered as NAKURA for the above-mentioned PCT Application and was also published as such. A copy of the Statement is also attached herewith.

Applicants respectfully petition that the inventor's last name be changed to NAGURA in the U.S. Patent Office to reflect the correct spelling of his last name.

Payment in the amount of \$130.00 to cover the required petition fee is enclosed. The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100.

Dated: August 9, 2007

Respectfully submitted,

By /FB/ Flynn Barrison (53,970)

Melvin C. Garner

Registration No.: 26,272

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Attorneys/Agents For Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kenji Kojima et al.

Application No.: 10/599,383

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Filed: September 27, 2006

Art Unit: N/A

For: ORGANIC ELECTROLYTE CAPACITOR
USING A MESOPORE CARBON MATERIAL
AS A NEGATIVE ELECTRODE

Examiner: Not Yet Assigned

**STATEMENT CONCERNING A CORRECTION OF NAME OF THE SECOND
INVENTOR, SATOSHI NAGURA**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

I, Satoshi NAGURA, a joint inventor of U.S. Patent Application Serial No. 10/599,383, filed September 27, 2006, which is a national phase application of PCT/JP2005/006822, filed March 31, 2005, hereby confirm that the incorrect spelling of my last name was unintentionally entered as NAKURA for the above mentioned PCT Application which was also published as such. The Declaration and a Supplemental Application Data Sheet were filed with the U.S. Patent Office on January 24, 2007, both of which indicate the correct spelling of my last name, NAGURA.

I hereby request that my last name be changed in the U.S. Patent Office to reflect the correct spelling of my last name.

Dated: July 31, 2007

Respectfully submitted,

By Satoshi Nagura
Satoshi NAGURA

Electronic Acknowledgement Receipt

EFS ID:	1462295
Application Number:	10599383
International Application Number:	
Confirmation Number:	7833
Title of Invention:	ORGANIC ELECTROLYTE CAPACITOR USING A MESOPORE CARBON MATERIAL AS A NEGATIVE ELECTRODE
First Named Inventor/Applicant Name:	Kenji Kojima
Customer Number:	7278
Filer:	Flynn Barrison/Hiroko Lavietes
Filer Authorized By:	Flynn Barrison
Attorney Docket Number:	03702/0205110-US0
Receipt Date:	24-JAN-2007
Filing Date:	
Time Stamp:	15:46:23
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$ 730
RAM confirmation Number	236
Deposit Account	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
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1	Transmittal of New Application	00980060.PDF	39640	no	3
Warnings:					
Information:					
2	Application Data Sheet	00980068.PDF	20209	no	4
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Oath or Declaration filed	00980038.PDF	161094	no	4
Warnings:					
Information:					
4	Fee Worksheet (PTO-06)	fee-info.pdf	8517	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			229460		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p>					

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 03702/0205110-US0
INTERNATIONAL APPLICATION NO. PCT/JP2005/006822		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/599,383
INTERNATIONAL FILING DATE 31 March 2005		PRIORITY DATE CLAIMED 31 March 2004
TITLE OF INVENTION ORGANIC ELECTROLYTE CAPACITOR USING A MESOPORE CARBON MATERIAL AS A NEGATIVE ELECTRODE		
APPLICANT(S) FOR DO/EO/US Kenji Kojima et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.		
2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.		
3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.		
4. <input type="checkbox"/> The US has been elected (Article 31).		
5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))		
a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).		
b. <input type="checkbox"/> has been communicated by the International Bureau.		
c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).		
6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).		
a. <input type="checkbox"/> is attached hereto.		
b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).		
7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))		
a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).		
b. <input type="checkbox"/> have been communicated by the International Bureau.		
c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.		
d. <input type="checkbox"/> have not been made and will not be made.		
8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).		
9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).		
10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11 to 20 below concern document(s) or information included:		
11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.		
12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
13. <input type="checkbox"/> A preliminary amendment.		
14. <input checked="" type="checkbox"/> A Supplemental Application Data Sheet under 37 CFR 1.76 to correct the Second Inventor Nagura's last name.		
15. <input type="checkbox"/> A substitute specification.		
16. <input type="checkbox"/> A power of attorney and/or change of address letter.		
17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.		
18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).		
19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/599,383	INTERNATIONAL APPLICATION NO. PCT/JP2005/006822	ATTORNEY'S DOCKET NUMBER 03702/0205110-US0
20. <input type="checkbox"/> Other items or information:		
The following fees have been submitted		
21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....	\$300	CALCULATIONS \$
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations \$200		\$ 200.00
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500		\$ 400.00
TOTAL OF 21, 22 and 23 =		\$ 600.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)
91 - 100 =	/50 =	x \$250.00
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	6 - 20 =	0
Independent claims	1 - 3 =	0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+
TOTAL OF ABOVE CALCULATIONS =		\$ 730.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		
SUBTOTAL =		\$ 730.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$
TOTAL NATIONAL FEE =		\$ 730.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$
TOTAL FEES ENCLOSED =		\$ 730.00
		Amount to be refunded: \$
		Amount to be charged \$

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.


- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-0100 . A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038**

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Joseph R. Robinson
DARBY & DARBY P.C.
P.O. Box 5257
New York, New York 10150-5257
(212) 527-7783

CUSTOMER NUMBER: 07278


 SIGNATURE

NAME Melvin C. Garner

26,272
REGISTRATION NUMBER

Supplemental Application Data Sheet

Application Information

Application number::	10/599,383
Filing Date::	09/27/06
Application Type::	Regular
Subject Matter::	Utility
Suggested Group Art Unit::	N/A
CD-ROM or CD-R?::	None
Sequence submission?::	None
Computer Readable Form (CRF)?::	No
Title::	ORGANIC ELECTROLYTE CAPACITOR USING A MESOPORE CARBON MATERIAL AS A NEGATIVE ELECTRODE
Attorney Docket Number::	03702/0205110-US0
Request for Early Publication?::	No
Request for Non-Publication?::	No
Suggested Drawing Figure::	Fig. 3
Total Drawing Sheets::	9
Small Entity?::	No
Petition included?::	No
Secrecy Order in Parent Appl.?::	No

Applicant Information

Applicant Authority Type::	Inventor
Primary Citizenship Country::	Japan
Status::	Full Capacity
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Family Name::	Kojima
City of Residence::	Tokyo

Country of Residence:: Japan
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7-2, Nishishinjuki 1-chome, Shinjuku-Ku
City of mailing address:: Tokyo
Country of mailing address:: Japan

Applicant Authority Type:: Inventor
Primary Citizenship Country:: Japan
Status:: Full Capacity
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Family Name:: ~~Nakura~~ Nagura
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Country of Residence:: Japan
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City of mailing address:: Ueda-shi
State or Province of mailing address:: Nagano
Country of mailing address:: Japan
Postal or Zip Code of mailing address:: 3860002

Applicant Authority Type:: Inventor
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Family Name:: Ando
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Country of Residence:: Japan
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7-2, Nishishinjuki 1-chome, Shinjuku-Ku
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Country of mailing address:: Japan

Applicant Authority Type::	Inventor
Primary Citizenship Country::	Japan
Status::	Full Capacity
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Family Name::	Hato
City of Residence::	Tokyo
Country of Residence::	Japan
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City of mailing address::	Tokyo
Country of mailing address::	Japan

Applicant Authority Type::	Inventor
Primary Citizenship Country::	Japan
Status::	Full Capacity
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Family Name::	Marumo
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Country of Residence::	Japan
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City of mailing address::	Tokyo
Country of mailing address::	Japan

Correspondence Information

Correspondence Customer Number::	07278
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Representative Information

Representative Customer Number:: 07278

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	National Stage of	PCT/JP2005/006822	03/31/05

Foreign Priority Information

Country::	Application number::	Filing Date::	Priority Claimed::
Japan	2004-108252	03/31/04	Yes

Assignee Information

Assignee name:: Fuji Jukogyo Kabushiki Kaisha
Street of mailing address:: 1-7-2, Nishi-shinjuku, Shinjuku-ku
City of mailing address:: Tokyo
Country of mailing address:: Japan
Postal or Zip Code of mailing address:: 1608316

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Declaration and Power of Attorney for Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する：

As a below named inventor, I hereby declare that:

私の住所、郵便の宛先そして国籍は、私の氏名の後に記載された通りである。

My residence, post office address, and citizenship are as stated next to my name.

下記の名称の発明について、特許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、最先且つ唯一の発明者である（唯一の氏名が記載されている場合）か、或いは最初、最先且つ共同発明者である（複数の氏名が記載されている場合）と信じている。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ORGANIC ELECTROLYTE CAPACITOR USING A
MESOPORE CARBON MATERIAL AS A NEGATIVE
ELECTRODE

ORGANIC ELECTROLYTE CAPACITOR USING A
MESOPORE CARBON MATERIAL AS A NEGATIVE
ELECTRODE

上記発明の明細書はここに添付されているが、下記の箱がチェックされている場合は、この限りでない：

the specification of which is attached hereto unless the following box is checked:

☒ 03/31/2005 の日に出願され、

☒ was filed on 03/31/2005

この出願の米国出願番号またはPCT国際出願番号は、

as United States Application Number or

PCT International Application Number

PCT/JP2005/006822 であり、且つ

PCT/JP2005/006822 and was amended on

の日に補正された出願（該当する場合）

(if applicable).

私は、上記の補正案によって補正された、特許請求範囲を含む上記明細書を検討し、且つ内容を理解していることをここに表明する。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編規則1.56に定義されている、特許性について重要な情報を開示する義務があることを認める。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Japanese Language Declaration

(日本語宣言書)

私は、ここに、以下に記載した外国での特許出願または発明者証の出願、或いは米国以外の少なくとも一団を指定している米国法典第35編第365条(a)によるPCT国際出願について、同第119条(a)(d)項又は第365条(a)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日より前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる出願も、下記の内容をチェックすることにより示した。

I hereby claim foreign priority under Title 35, United States Code Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365 (a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate, or PCT International application having a filing date before that of the application for which priority is claimed.

Priority Not Claimed

優先権を主張なし

Prior Foreign Application(s)

外国での先行出願

2004-108252	Japan	March 31, 2004	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
(番号)	(国名)	(出願日/月/年)	
			<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
(番号)	(国名)	(出願日/月/年)	

私は、ここに、下記のいかなる米国仮特許出願についても、その米国法典第35編第119条(a)項の利益を主張する。

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)	(Filing Date)
(出願番号)	(出願日)
(Application No.)	(Filing Date)
(出願番号)	(出願日)

私は、ここに、下記のいかなる米国出願についても、その米国法典第35編第120条に基づく利益を主張し、又米国を指定するいかなるPCT国際出願についても、その同第365条(c)に基づく利益を主張する。また、本出願の各特許請求の範囲の主題が、米国法典第35編第112条第1段に規定された態様で、先行する米国出願又はPCT国際出願に開示されていない場合においては、その先行出願の出願日と本国内出願日またはPCT国際出願日との間の期間中に入手された情報で、発明の明細書第37編規則1.56に定義された特許性に関する重要な情報について開示義務があることを承認する。

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application No.)	(Filing Date)	(Status Patented, Pending, Abandoned)
(出願番号)	(出願日)	(現況: 特許許可、係属中、放棄)
(Application No.)	(Filing Date)	(Status Patented, Pending, Abandoned)
(出願番号)	(出願日)	(現況: 特許許可、係属中、放棄)

私は、ここに表明された私自身の知識に基く陳述が真実であり、且つ情報と信ずることに基づく陳述が、真実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、若しくはその両方により処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題を生ずることを理解した上で陳述が行われたことを、ここに宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Japanese Language Declaration

(日本語宣言書)

委任状: 私は本出願を審査する手続を行い、且つ米国特許商標庁との全ての業務を遂行するために、記名された発明者として、下記の弁護士及び/または弁理士を任命する。(氏名及び登録番号を記載すること)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number).

Attorneys associated with Customer Number 07278

Attorneys associated with Customer Number 07278

書類送付先

Address associated with Customer Number 07278
DARBY & DARBY P.C.
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P.O. Box 5257
New York, New York 10150-5257

直通電話連絡先: (氏名及び電話番号)

Joseph R. Robinson, (212) 527-7783

Direct Telephone Calls to: (name and telephone number)

Joseph R. Robinson, (212) 527-7783

唯一または第一発明者氏名

Kenji Kojima

Full name of sole or first inventor

Kenji Kojima

発明者の署名

日付

Inventor's signature

Date

Kenji Kojima October 10, 2006

住所

Tokyo, Japan

Residence

Tokyo, Japan

国籍

Japan

Citizenship

Japan

郵便の宛先

c/o Fuji Jukogyo Kabushiki Kaisha
1-7-2, Nishi-shinjuku
Shinjuku-ku, Tokyo, 1608316
JAPAN

Post Office Address

c/o Fuji Jukogyo Kabushiki Kaisha
1-7-2, Nishi-shinjuku
Shinjuku-ku, Tokyo, 1608316
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第二共同発明者がいる場合、その氏名

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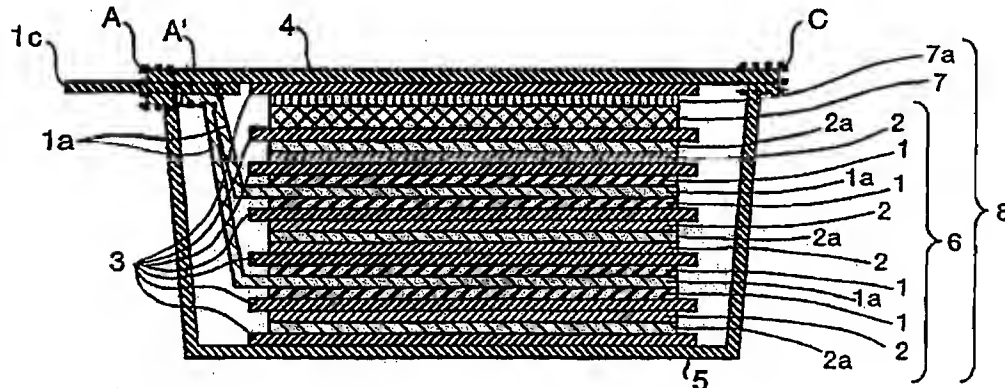
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[続葉有]

(54) Title: ORGANIC ELECTROLYTE CAPACITOR USING MESOPOROUS CARBON MATERIAL AS NEGATIVE ELECTRODE

(54) 発明の名称: メソポア炭素材を負極に用いた有機電解質キャパシタ



(57) Abstract: An organic electrolyte capacitor with high energy density and high output power is disclosed which has a high capacity even at -20°C . The organic electrolyte capacitor comprises a positive electrode, a negative electrode, and an electrolyte which is capable of transferring lithium ions. The positive electrode can reversibly support lithium ions and anions, while the negative electrode can reversibly support lithium ions. A mesoporous carbon material having a mesopore diameter of not less than 3 nm and a mesopore volume of not less than 0.10 ml/g is used as the negative electrode active material. Consequently, there can be realized an organic electrolyte capacitor which has a high discharge capacity even at such a low temperature as -20°C while having a high voltage and a high energy density.

(57) 要約: -20°C においても高容量を有する、高エネルギー密度、高出力を有した有機電解質キャパシタを提供する。本発明の有機電解質キャパシタにより、正極、負極、並びに、リチウムイオンを移送可能な電解質を備えた有機電解質キャパシタであって、正極がリチウムイオンおよびアニオンを可逆的に担持可能であるとともに、負極がリチウムイオンを可逆的に担持可能であり、かつ負極活物質に細孔直径 3 nm 以上の細孔容積を 0.10 ml/g 以上有するメソポア炭素材を用いることにより、高電圧、高エネルギー密度を有しながら、 -20°C という低温状態でも高い放電容量を有した有機電解質キャパシタを実現しうる。

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